

KBJL8J thru KBJL8M

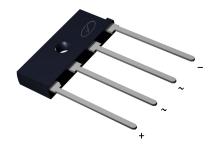
Glass Passivated Bridge Rectifiers Reverse Voltage 600 to 1000V Forward Current 8A

Features

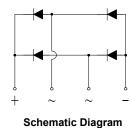
- Thin single In-line package
- Ideal for printed circuit boards
- Glass passivated chip junction
- Low profile package
- High surge current capability
- High case dielectric strength of 2000 V_{RMS}
- Plastic package has Underwrites Laboratory

Mechanical Data

- Case: KBJL
- Epoxy meets UL-94V-0 Flammability rating
- Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22-B102, E3 suffix for customer grade, meet JESD 201
- High temperature soldering guaranteed:Solder Dip 275°C, 40seconds
- Polarity: As marked on body
- Mounting Torgue: 5.7cm-kg (5.0inches-lbs) max
- Recommend Torgue: 5.7cm-kg (5inches-lbs)



Package: KBJL







Maximum Ratings and Electrical Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Symbol	KBJL8J	KBJL8K	KBJL8M	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Maximum Average Forward Rectified T_C =110°C Output Current at T_A =25°C	I _{F(AV)}	8.0 ⁽¹⁾ 3.1 ⁽²⁾			Α
Peak Forward Surge Current (8.3 ms single sine-wave superimposed on rated load, JEDEC method)	I _{FSM}	180			Α
Rating for Fusing (t<8.3ms)	l ² t	134			A ² sec
Maximum Instantaneous Forward Voltage Drop per Leg at 4A	V _F	0.96			V
Maximum DC Reverse Current at Rated T_A =25°C DC Blocking Voltage per Leg T_A =125°C	I _R	5 150			μΑ
Typical Thermal Resistance per Leg	R _{eJA} R _{eJC}	25 ⁽²⁾ 1.8 ⁽¹⁾			°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150			°C

Notes:

- 1). Unit case mounted on Al plate heatsink
- 2). Units mounted on PCB without heatsink



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Typical Characteristic Curves

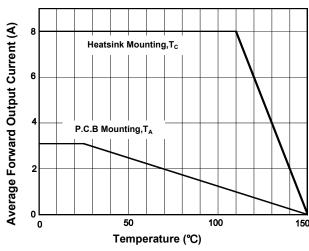


Figure 1. Derating Curve Output Rectified Current

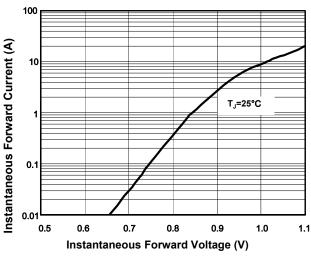


Figure 3. Typical Forward Characteristics Per Diode

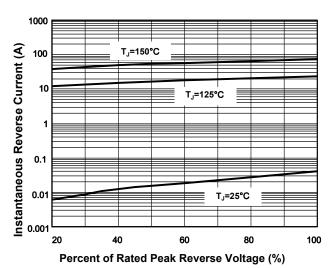


Figure 5. Typical Reverse Characteristics Per Diode

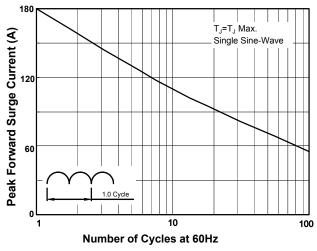


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current per Diode

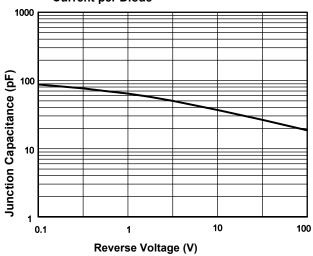


Figure 4. Typical Junction Capacitance Per Diode



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Product Outline Dimensions

in mm KBJL

